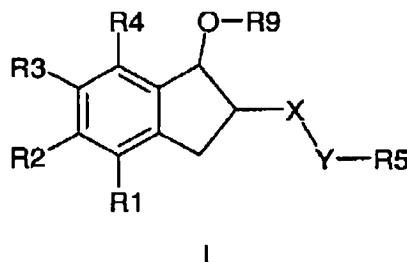


AMENDMENTS TO THE CLAIMS

This listing of claims will replace all the prior versions and listings of claims in the application:

Claim 1. (Currently amended). A compound of the formula I,



in which

R1, R2, R3, R4, independently of one another, are H, F, Cl, Br, I, CN; N₃, NO₂, OH, O(C₁-C₈)-alkyl, O(C₃-C₈)-cycloalkyl, O-CH₂-phenyl, O-phenyl, O-CO-(C₁-C₈)-alkyl, O-CO-(C₃-C₈)-cycloalkyl, S(O)₀₋₂(C₁-C₈)-alkyl, S(O)₀₋₂(C₃-C₈)-cycloalkyl, NH₂, NH-(C₁-C₈)-alkyl, NH-(C₃-C₈)-cycloalkyl, N[(C₁-C₈)-alkyl]₂, N[(C₃-C₈)-cycloalkyl]₂, NH-CO-(C₁-C₈)-alkyl, NH-CO-(C₃-C₈)-cycloalkyl; SO₃H, SO₂-NH₂, SO₂-NH-(C₁-C₈)-alkyl, SO₂-NH-(C₃-C₈)-cycloalkyl, NH-SO₂-NH₂, NH-SO₂-(C₁-C₈)-alkyl, NH-SO₂-(C₃-C₈)-cycloalkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O(C₁-C₈)-alkyl, CO-O-(C₃-C₈)-cycloalkyl, CO-NH₂, CO-NH(C₁-C₈)-alkyl, CO-N[(C₁-C₈)-alkyl]₂; (C₁-C₈)-alkyl, (C₃-C₈)-cycloalkyl, (C₂-C₈)-alkenyl, (C₂-C₈)-alkynyl, wherein in the alkyl, alkenyl and alkynyl groups in each case one to seven hydrogen atoms may be replaced by fluorine,

or one hydrogen may be replaced by OH, OC(O)CH₃, O-CH₂-Ph, NH₂, NH-CO-CH₃ or N(COOCH₂Ph)₂;
phenyl, 1- or 2-naphthyl,

where the aryl radical may be substituted up to two times by

F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)_{0.2}(C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂ and wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

X is SO;

Y is (CH₂)_p, where p may be 0, 1, 2 or 3;

R5 is CF₃, (C₁-C₁₈)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

(CH₂)_r COR₆, where r=1-6 and R₆ may be OH, O-(C₁-C₆)-alkyl or NH₂;

CH₂-CH(NHR₇)-COR₈, where R₇ may be H or C(O)-(C₁-C₄)-alkyl and R₈ may be OH, O-(C₁-C₆)-alkyl or NH₂; or

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems may be substituted up to two times by

F, Cl, Br, I, CN, OH, O(C₁-C₈)-alkyl, O(C₃-C₈)-cycloalkyl, O-CO-(C₁-C₈)-alkyl, O-CO-(C₃-C₈)-cycloalkyl, S(O)_{0.2}(C₁-C₈)-alkyl, S(O)_{0.2}(C₃-C₈)-cycloalkyl, NH₂, NH-(C₁-C₈)-alkyl, NH-(C₃-C₈)-cycloalkyl, N[(C₁-C₈)-alkyl]₂, N[(C₃-C₈)-cycloalkyl]₂, NH-CO-(C₂-C₈)-alkyl, NH-CO-(C₃-C₈)-cycloalkyl; SO₃H, SO₂-NH₂, SO₂-NH-(C₁-C₈)-alkyl, SO₂-NH-(C₃-C₈)-cycloalkyl; NH-SO₂-NH₂, NH-SO₂-(C₁-C₈)-alkyl, NH-SO₂-(C₃-C₈)-cycloalkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O(C₁-C₈)-alkyl, CO-O-(C₃-C₈)-cycloalkyl, CO-NH₂, CO-NH(C₁-C₈)-alkyl, CO-N[(C₁-C₈)-alkyl]₂, (C₁-C₈)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl groups in each case one to seven hydrogen atoms may be replaced by fluorine;

R9 is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;

CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl, C(O)-(C₁-C₈)-alkyl, C(O)-(C₃-C₈)-cycloalkyl, C(O)-phenyl, C(O)-CH(NHR₁₂)-(C₁-C₈)-alkyl,

phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be substituted up to two times by F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂(C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, -CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂; (CH₂)-R10;

(CH₂)_s-R11, where s = 2 or 3;

- R10 is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;
COOH, CONH₂, CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl;
phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be substituted up to two times by
F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂(C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂,
- R11 is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;
COOH, CONH₂, CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl;
phenyl, 1- or 2-naphthyl, or biphenyl,
where the aryl radicals may be substituted up to two times by
F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂(C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, or CO-NH₂;

R12 is H, or C(O)-(C₁-C₆)-alkyl;

with the proviso that when R9 is CO-CH₃, and X is O, and Y is (CH₂)_p wherein p is 0, and R5 is phenyl substituted by chloro in the para position, then R1, R2, R3 and R4 cannot all be hydrogen at the same time;

and their physiologically acceptable salts.

Claim 2. (Previously presented). The compound of formula 1, as claimed in claim 1 where in

R1, R4 independently of one another are H, F, Cl, Br, N₃, O(C₁-C₈)-alkyl, or (C₁-C₈)-alkyl and wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

R2, R3 independently of one another are H, F, Cl, Br, N₃, O(C₁-C₈)-alkyl, or (C₁-C₈)-alkyl and wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

wherein in each case at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

X is SO;

Y is (CH₂)_p, where p can be 0, 1, 2 or 3;

R5 is (C₁-C₁₈)-alkyl; (C₃-C₄- or C₆-C₈)-cycloalkyl, wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

(CH₂)_r-COR6, where r = 1-6 and R6 can be OH, O-(C₁-C₆)-alkyl or NH₂;

CH₂-CH(NHR7)-COR8, where R7 can be H or C(O)-(C₁-C₆)-alkyl and R8 can be OH, O-(C₁-C₆)-alkyl or NH₂; or

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems may be substituted up to two times by O(C₁-C₈)-alkyl, O(C₃-C₈)-cycloalkyl, O-CO-(C₁-C₈)-alkyl, O-CO-(C₃-C₈)-cycloalkyl, S(O)₀₋₂(C₁-C₈)-alkyl, S(O)₀₋₂(C₃-C₈)-cycloalkyl, NH₂, NH-(C₁-C₈)-alkyl, NH-(C₃-C₈)-cycloalkyl, N[(C₁-C₈)-alkyl]₂, N[(C₃-C₈)-cycloalkyl]₂, NH-CO-(C₂-C₈)-alkyl, NH-CO-(C₃-C₈)-cycloalkyl; SO₃H; SO₂-NH₂, SO₂-NH-(C₁-C₈)-alkyl, SO₂-NH-(C₃-C₈)-cycloalkyl, NH-SO₂-NH₂; NH-SO₂-(C₁-C₈)-alkyl, NH-SO₂-(C₃-C₈)-cycloalkyl; O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O(C₁-C₈)-alkyl, CO-O-(C₃-C₈)-cycloalkyl, CO-NH₂, CO-NH(C₁-C₈)-alkyl, CO-N[(C₁-C₈)-alkyl]₂; (C₁-C₈)-alkyl, or (C₃-C₈)-cycloalkyl, where in the alkyl groups in each case one to seven hydrogen atoms may be replaced by fluorine;

F, Cl, Br, I, CN;

- R9 is (C₁-C₁₂)-alkyl, (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;
- CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl, C(O)-(C₁-C₈)-alkyl, C(O)-(C₃-C₈)-cycloalkyl, C(O)-phenyl, C(O)-CH(NHR12)-(C₁-C₈)-alkyl, phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be substituted up to two times by F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂ (C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, -CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, or CO-NH₂;
- (CH₂)-R10;
- (CH₂)_s-R11, where s = 2 or 3;
- R10 is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;
- COOH, CONH₂, CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl; phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be substituted up to two times by
- F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂ (C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂;
- R11 is (C₁-C₁₂)-alkyl, (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;
- COOH, CONH₂, CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl;
- phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be substituted up to two times by
- F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂ (C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂;
- R12 is H, or C(O)-(C₁-C₆)-alkyl;

and their physiologically acceptable salts.

Claim 3 (Previously presented). The compound of formula I, as claimed in claim 1 in which

R1, R4 independently of one another are H, F, Cl, Br, N₃, O(C₁-C₈)-alkyl, or (C₁-C₈)-alkyl and wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

R2, R3 independently of one another are H, F, Cl, Br, N₃, O(C₁-C₈)-alkyl, or (C₁-C₈)-alkyl and where in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine; where in each case at least one of the radicals R1, R2, R3 and R4 is different from hydrogen;

X is SO;

Y is (CH₂)_p, where p is 0 or 1;

R5 is (C₁-C₈)-alkyl, wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;
phenyl, where the phenyl radical may be substituted up to two times by F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, or O-(C₁-C₄)-alkyl;

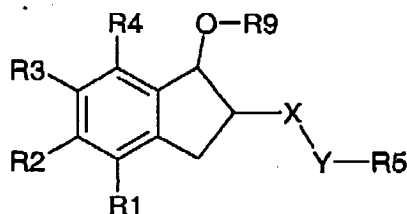
R9 is (C₁-C₁₂)-alkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;

CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl, C(O)-(C₁-C₈)-alkyl, C(O)-(C₃-C₈)-cycloalkyl, or C(O)-phenyl, where the phenyl radical may be substituted up to two times by F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃,

O-(C₁-C₄)-alkyl, S(O)_{0.2} (C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, or CO-NH₂;

and their physiologically acceptable salts.

Claim 4. (Currently amended) A pharmaceutical composition comprising an effective amount of a compound of formula II ~~as claimed in claim 1~~



II

in which

R1, R2, R3, R4, independently of one another, are H, F, Cl, Br, I, CN; N₃, NO₂, OH, O(C₁-C₈)-alkyl, O(C₃-C₈)-cycloalkyl, O-CH₂-phenyl, O-phenyl, O-CO-(C₁-C₈)-alkyl, O-CO-(C₃-C₈)-cycloalkyl, S(O)₀₋₂(C₁-C₈)-alkyl, S(O)₀₋₂(C₃-C₈)-cycloalkyl, NH₂, NH-(C₁-C₈)-alkyl, NH-(C₃-C₈)-cycloalkyl, N[(C₁-C₈)-alkyl]₂, N[(C₃-C₈)-cycloalkyl]₂, NH-CO-(C₁-C₈)-alkyl, NH-CO-(C₃-C₈)-cycloalkyl; SO₃H, SO₂-NH₂, SO₂-NH-(C₁-C₈)-alkyl, SO₂-NH-(C₃-C₈)-cycloalkyl, NH-SO₂-NH₂, NH-SO₂-(C₁-C₈)-alkyl, NH-SO₂-(C₃-C₈)-cycloalkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₈)-alkyl, CO-O-(C₃-C₈)-cycloalkyl, CO-NH₂, CO-NH-(C₁-C₈)-alkyl, CO-N[(C₁-C₈)-alkyl]₂, (C₁-C₈)-alkyl, (C₃-C₈)-cycloalkyl, (C₂-C₈)-alkenyl, (C₂-C₈)-alkynyl, wherein in the alkyl, alkenyl and alkynyl groups in each case one to seven hydrogen atoms may be replaced by fluorine,

or one hydrogen may be replaced by OH, OC(O)CH₃, O-CH₂-Ph, NH₂, NH-CO-CH₃ or N(COOCH₂Ph)₂;
phenyl, 1- or 2-naphthyl,

where the aryl radical may be substituted up to two times by

F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂(C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂ and wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

X is SO;

Y is (CH₂)_p, where p may be 0, 1, 2 or 3;

R5 is CF₃, (C₁-C₁₈)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl groups one to seven hydrogen atoms may be replaced by fluorine;

(CH₂)_r COR₆, where r=1-6 and R₆ may be OH, O-(C₁-C₆)-alkyl or NH₂;

CH₂-CH(NHR₇)-COR₈, where R₇ may be H or C(O)-(C₁-C₄)-alkyl and R₈ may be OH, O-(C₁-C₆)-alkyl or NH₂; or

phenyl, 1- or 2-naphthyl, or biphenyl, where the rings or ring systems may be substituted up to two times by

F, Cl, Br, I, CN, OH, O(C₁-C₈)-alkyl, O(C₃-C₈)-cycloalkyl, O-CO-(C₁-C₈)-alkyl, O-CO-(C₃-C₈)-cycloalkyl, S(O)_{0.2}(C₁-C₈)-alkyl, S(O)_{0.2}(C₃-C₈)-cycloalkyl, NH₂, NH-(C₁-C₈)-alkyl, NH-(C₃-C₈)-cycloalkyl, N[(C₁-C₈)-alkyl]₂, N[(C₃-C₈)-cycloalkyl]₂, NH-CO-(C₂-C₈)-alkyl, NH-CO-(C₃-C₈)-cycloalkyl, SO₃H, SO₂-NH₂, SO₂-NH-(C₁-C₈)-alkyl, S O₂-NH-(C₃-C₈)-cycloalkyl; NH-SO₂-NH₂, NH-SO₂-(C₁-C₈)-alkyl, NH-SO₂-(C₃-C₈)-cycloalkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O(C₁-C₈)-alkyl, CO-O-(C₃-C₈)-cycloalkyl, CO-NH₂, CO-NH(C₁-C₈)-alkyl, CO-N[(C₁-C₈)-alkyl]₂, (C₁-C₈)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl groups in each case one to seven hydrogen atoms may be replaced by fluorine;

R9 is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;

CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl, C(O)-(C₁-C₈)-alkyl, C(O)-(C₃-C₈)-cycloalkyl, C(O)-phenyl, C(O)-CH(NHR₁₂)-(C₁-C₈)-alkyl,

phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be substituted up to two times by F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)_{0.2}(C₁-C₆)-alkyl, NH₂, NH-SO₂-(C₁-C₄)-alkyl, -CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-(C₁-C₄)-alkyl, CO-NH₂;

(CH₂)-R₁₀;

(CH₂)_s-R₁₁, where s = 2 or 3;

R10 is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven hydrogen atoms may be replaced by fluorine;

COOH, CONH₂, CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl;
phenyl, 1- or 2-naphthyl, or biphenyl, where the aryl radicals may be
substituted up to two times by

F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂(C₁-C₆)-alkyl, NH₂,
NH-SO₂-(C₁-C₄)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl, COOH, CO-O-
(C₁-C₄)-alkyl, CO-NH₂,

R11 _____ is (C₁-C₁₂)-alkyl, or (C₃-C₈)-cycloalkyl, wherein in the alkyl radicals one to seven
hydrogen atoms may be replaced by fluorine;

COOH, CONH₂, CO-O(C₁-C₆)-alkyl, CO-O(C₃-C₈)-cycloalkyl;
phenyl, 1- or 2-naphthyl, or biphenyl,
where the aryl radicals may be substituted
up to two times by

F, Cl, Br, CN, OH, (C₁-C₄)-alkyl, CF₃, O-(C₁-C₄)-alkyl, S(O)₀₋₂(C₁-C₆)-alkyl,
NH₂, NH-SO₂-(C₁-C₄)-alkyl, O-CH₂-COOH, O-CH₂-CO-O(C₁-C₈)-alkyl,
COOH, CO-O-(C₁-C₄)-alkyl, or CO-NH₂;

R12 _____ is H, or C(O)-(C₁-C₆)-alkyl;

and their physiologically acceptable salts,

and a pharmaceutically acceptable carrier thereof.

Claim 5. (Original) The pharmaceutical composition according to claim 4, further comprising one or more active compounds suitable for reducing weight or for the treatment of obesity.

Claim 6. (Original) The pharmaceutical composition according to claim 4, further comprising one or more of the agents selected from the group consisting of cathine, phenylpropanolamine, amfepramone, mefenorex, ephedrine, leptin, dexamphetamine, amphetamine, fenfluramine, dexfenfluramine, sibutramine, orlistat, mazindol or phentermine and their salts.

Claim 7. (Currently amended) A method for the treating obesity, comprising administering to a subject in need thereof, an effective amount of a compound according to formula II as claimed in claim 41.

Claim 8. (Currently amended) A method of reducing weight in a mammal, comprising administering to said mammal an effective amount of a compound of formula II as claimed in claim 41.

Claim 9. (Currently amended) A method of maintaining weight loss, comprising administering to a subject in need thereof, an effective amount of a compound of formula II as claimed in claim 41.

Claim 10. (original) The method of claim 9, further comprising administering one or more active compounds for reducing weight in mammals.